



Standards *Actions*

DOE Documents Recently Published

The following DOE documents have recently been published:

- **DOE-SPEC-3021-97**, *Uninterruptible Power Supply (UPS) Systems*, April 1997.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-5728.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

The Technical Standards Program is sponsoring a project at OSTI to place all DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) on the Internet. To date, 121 DOE technical standards have been placed on the Internet at the address shown at the bottom of this page.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email sbose@ansi.org. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a

complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments.

The following American National Standards are currently in coordination:

- API RP-500-1997, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class 1, Division 1, or Division 2 - Second Edition*, (new standard); comments due September 16, 1997.
- ASME AG-1b, *Code on Nuclear Air and Gas Treatment* (supplement to ANSI/ASME AG-1-1994); comments due September 2, 1997.
- ASME B94-33.1, *Jig Bushings* (new standard); comments due August 19, 1997.
- ASSE 1062, *Performance Requirements for Temperature Actuated, Flow Reduction (TAFR) Valves* (new standard); comments due September 16, 1997.
- ASTM E1187, *Terminology Relating to Laboratory Accreditation* (revision of ANSI/ASTM E1187-96a); comments due August 19, 1997.
- ASTM F1446, *Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear* (revision of ANSI/ASTM F1446); comments due August 19, 1997.
- AWS A4.2, *Standard Procedures for Calibrating Magnetic Instruments to Measure the Delta Ferrite Content of Austenitic and Duplex Austenitic-Ferritic Stainless Steel Weld Metal* (revision of ANSI/AWS A4.2-91); comments due August 19, 1997.
- AWS B5.11, *Specification for the Qualification of Radiographic Interpreters* (new standard); comments due August 19, 1997.
- EIA SP-3720 (if approved, to be published as ANSI/EIA 540BOAA), *Ball Grid Array (BGA) Socket Test Specification* (new standard); comments due August 19, 1997.
- EIA SP-3929 (if approved, to be published as ANSI/EIA 198-E-1), *Ceramic Dielectric Capacitors - Classes I, II, III and IV - Part I: Characteristics and Requirements* (revision of ANSI/EIA 198-D-1991); comments due September 2, 1997.

Technical Standards Program Document Status as of 7/31/97

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	45	21	1

Total in process = 66



Visit the Technical Standards Program Web Site: <http://apollo.osti.gov/html/techstds/techstds.html>

- ISA dRP 12.24.01 (IEC 79-10), *Draft 4, Recommended Practice for Classification of Locations for Electrical Installations Classified as Class 1, Zone 0, Zone 1, or Zone 2* (new standard); comments due August 19, 1997.
- MH26.2, *Specification for the Design, Testing, Utilization of Welded Wire Rack Decking*, (new standard); comments due September 16, 1997.
- N13.6, *Practice for Occupational Radiation Records Systems* [revision of ANSI N13.6-1966 (R1989)]; comments due September 2, 1997.
- NCITS 310, *Representation of Time for Information Interchange* (new standard); comments due September 16, 1997.
- NEMA WD 6-1997, *Wiring Devices - Dimensional Requirements* (new standard); comments due September 2, 1997.
- NETA MTS 7.6.1.2-1997, *Electrical Maintenance Testing of Low-Voltage Power Circuit Breakers* (new standard); comments due by August 19, 1997.
- * NFPA 68-1998, *Guide for Venting of Deflagrations* (revision of ANSI/NFPA 68-1994); comments due October 10, 1997.
- NFPA 231-1998, *General Storage* (revision of ANSI/NFPA 231-1995); comments due October 10, 1997.
- NFPA 231C-1998, *Rack Storage of Materials* (revision of ANSI/NFPA 231C-1995); comments due October 10, 1997.
- NFPA 270-1988, *Test Method for Determination of Specific Optical Density of Smoke* (new standard); comments due October 10, 1997.
- NFPA 285-1998, *Method of Test for the Evaluation of Flammability Characteristics of Exterior Non-Load Bearing Wall Assemblies Containing Combustible Components Using the Intermediate Scale Multi-Story Test Apparatus* (new standard); comments due October 10, 1997.
- NFPA 1620-1998, *Recommended Practice for Pre-Incident Planning* (new standard); comments due October 10, 1997.
- NFPA 1962-1988, *Standard for the Care, Use and Service Testing of Fire Hose, Including Couplings and Nozzles* (revision of ANSI/NFPA 1962-1993); comments due October 10, 1997.
- NSF 61 (Sections 1 through 9), *Drinking Water System Components - Health Effects* (revision of ANSI/NSF 61-1995); comments due September 2, 1997.
- UL 467, *Standard for Safety for Grounding and Bonding Equipment* (revision of ANSI/UL 467-1993); comments due September 16, 1997.
- Z245.41, *Equipment Technology and Operations for Wastes and Recyclable Materials - Facilities for the Processing of Commingled Recyclable Materials - Safety Requirements* (new standard); comments due August 19, 1997.

The following international standards are currently in coordination (comment due dates follow each entry):

- 64/946/FDIS, *Draft IEC 60364-5-534: Electrical installations of buildings - Part 5: Selection and erection of electrical equipment - Chapter 53: Switchgear and controlgear - Section 534: Devices for protection against overvoltages* - August 15, 1997.
- EN 50160: 1994/prAA: 1997, *Voltage characteristics of electricity supplied by public distribution systems* - September 7, 1997.
- EN 60076-1: 199X/prAA: 1997, *Power transformers - Part 1: General* - August 7, 1997.

- ISO/DIS 3166-3, *Codes for the presentation of names of countries and their subdivisions - Part 3: Code for formerly used names of countries* - September 19, 1997.
- ISO/DIS 3534-3, *Statistics - Vocabulary and symbols - Part 3: Design of experiments* (revision of ISO 3534-3: 1985) - September 12, 1997.
- ISO/DIS 9241-12, *Ergonomic requirements for office work with visual display terminals (VDTs) - Part 12: Presentation of information* - September 19, 1997.
- ISO/DIS 15330, *Fasteners - Preloading test for the detection of hydrogen embrittlement - Parallel bearing surface method* - August 29, 1997.
- ISO/DIS 15614-8, *Specification and approval of welding procedures for metallic materials - Welding procedure test - Part 8: Welding of tubes to tube-plate joints* - August 22, 1997.
- prEN 206 REVIEW, *Concrete - Performance, production and conformity* - October 8, 1997.
- prEN 358 REVIEW, *Personal protective equipment for work positioning and prevention of falls from a height - Belts for work positioning and restraint and work positioning lanyards* - September 24, 1997.
- prEN 12845, *Fixed firefighting systems - Automatic sprinkler systems - Design and installation* - October 1, 1997.
- prEN 12873-1, *Influence of materials on water intended for human consumption- Influence due to migration - Part 1: Test method for factory made products (except metallic and cementitious products)* - September 24, 1997.
- prEN 12874, *Flame arresters - Specifications, operational requirements and test procedures* - September 24, 1997.
- prEN 12882, *Conveyor belts for general purpose use - Electrical and flammability safety requirements* - October 1, 1997.
- prEN 12898, *Glass in building - Determination of the emissivity* - October 15, 1997.
- prEN 12916, *Petroleum products - Determination of aromatic hydrocarbon types in middle distillates - High performance liquid chromatography method with refractive index detection* - November 12, 1997.
- prEN 12917, *Underground tanks of glass-reinforced plastics (GRP) - Horizontal cylindrical tanks for the non-pressure storage of liquid petroleum based fuels - Assessment of conformity to EN 976-1 and EN 976-3* - November 12, 1997.
- prEN 12921-1, *Machines for surface cleaning and pretreatment of industrial items using liquids or vapours - Part 1: Common safety requirements* - November 12, 1997.
- prEN 12937, *Safety of machinery - Technical principles and specifications for mobility and for lifting* - November 12, 1997.
- prEN 45020: 1997, *Standardization and related activities - General vocabulary (ISO/IEC Guide 2: 1996)* - October 12, 1997.
- prEN 50273: 1997, *Installation of electrical apparatus in areas endangered by explosive substances* - August 7, 1997.
- prEN 50274: 1997, *Low-voltage switchgear and controlgear assemblies - Protection against electric shock - Operation by partial contact protection* - September 7, 1997.
- prEN 50281-1-1, *Electrical apparatus for use in the presence of combustible dust - Part 1-1: Construction and testing* - September 7, 1997.

- prEN ISO 11114-2, *Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 2: Non-metallic materials (ISO/DIS 1114-2: 1997)* - October 5, 1997.
- prEN ISO 13534, *Petroleum and natural gas industries - Drilling and production equipment - Inspection, maintenance, repair and remanufacture of hoisting equipment (ISO/DIS 13534: 1997)* - October 5, 1997.
- prEN ISO 14041, *Environmental management - Life cycle assessment - Goal and scope definition and inventory analysis (ISO/DIS 14041: 1997)* - October 12, 1997.
- prHD 348 S7: 1997, *High-voltage alternating-current circuit breakers (IEC 56: 1987 + A3: 1996, modified)* - September 7, 1997.

The following newly published international standards are available from ANSI:

- IEC 60364-5-51: 1997, *Electrical installation of buildings - Part 5: Selection and erection of electrical equipment - Chapter 51: Common rules.*
- IEC 60718: 1997, *Electrical equipment for the supply of energy to battery-powered road vehicles.*
- IEC 61089: 1991/Amendment 1: 1997, *Amendment 1: Round wire concentric lay overhead electrical standard conductors.*
- IEC 61725: *Analytical expression for daily solar profiles.*
- IEC 61241-3: 1997, *Electrical apparatus for use in the presence of combustible dust - Part 3: Classification of areas where combustible dusts are or may be present.*
- IEC 61649: 1997, *Goodness-of-fit tests, confidence intervals and lower confidence limits for Weibull distributed data.*
- IEC 61666: 1997, *Industrial systems, installations and equipment and industrial products - Identification of terminals within a system.*
- ISO 2631-1: 1997, *Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirements.*
- ISO 6263: 1997, *Hydraulic fluid power - Compensated flow-control valves - Mounting surfaces.*
- ISO 9000-2: 1997, *Quality management and quality assurance standards - Part 2: Generic guidelines for the application of ISO 9001, ISO 9002 and ISO 9003.*
- ISO 9239-1: 1997, *Reaction to fire tests - Horizontal surface spread of flame on floor covering systems - Part 1: Flame spread using a radiant heat ignition source.*
- ISO 10703: 1997, *Water quality - Determination of the activity concentration of radionuclides by high resolution gamma-ray spectrometry.*
- ISO 11934: 1997, *X and gamma radiation - Indirect- or direct-reading capacitor-type pocket dosimeters.*
- ISO 12491: 1997, *Statistical methods for quality control of building materials and components.*
- ISO 13478: 1997, *Thermoplastic pipes for the conveyance of fluids - Determination of resistance to rapid crack propagation (RCP) - Full-scale test (FST).*

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). ASTM has developed a World Wide Web home page at the following URL: <http://www.astm.org>. The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination:
(the due date for all items is August 10, 1997).

- New Standard, *Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing* (Ref. Z4142Z).
- New Standard, *Specification for Polyethylene (PE) Pipe and Fittings for Drain Waste and Vent Systems* (Ref. Z6488Z).
- E 1142-96, *Terminology Relating to Thermophysical Properties* (revised standard).

The following newly published standards are available from ASTM:

- D 226-97, *Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing* (revised standard).
- D 2178-97, *Specification for Asphalt Glass Felt Used in Roofing and Waterproofing* (revised standard).
- D 5979-96, *Guide for Conceptualization and Characterization of Ground-Water Systems* (new standard).
- D 5980-96, *Guide for Selection and Documentation of Existing Wells for Use in Environmental Site Characterization and Monitoring* (new standard).
- D 5982-96, *Test Method for Determining Cement Content of Fresh Soil-Cement (Heat of Neutralization Method)* (new standard).
- D 6009-96, *Guide for Sampling Waste Piles* (new standard).
- D 6083-97, *Specification for Liquid Applied Acrylic Coating Used in Roofing* (new standard).
- E 1191-97, *Guide for Conducting Life-Cycle Toxicity Tests With Saltwater Mysids* (revised standards).
- E 1363-97, *Test Method for Temperature Calibration of Thermomechanical Analyzers* (revised standard).
- E 1402-96, *Terminology Relating to Sampling* (revised standard).
- E 1515-96, *Test Method for Minimum Explosible Concentration of Combustible Dusts* (revised standard).
- E 1856-97, *Guide for Evaluating Computerized Data Acquisition Systems Used to Acquire Data From Universal Testing Machines* (new standard).

- G 141-96, *Guide for Addressing Variability in Exposure Testing on Nonmetallic Materials* (new standard).
- G 144-96, *Test Method for Determination of Residual Contamination of Materials and Components by Total Carbon Analysis Using a High Temperature Combustion Analyzer* (new standard).
- G 145-96, *Guide for Studying Fire Incidents in Oxygen Systems* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Society for Testing and Materials

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- ASTM PS046, *Practice for the Collection of Surface Dust by Air Sampling Pump Vacuum Technique for Lead Determination* (new standard).

Underwriters Laboratories, Inc.

Office: 333 Pfingsten Road
Northbrook, IL 60062-2096

Fax: 847-509-6217

E-mail: goldm@ul.com

Contact: Mitchell Gold

- UL 486A, *Standard for Safety for Wire Connectors and Soldering Lugs for Use with Copper Conductors* (new standard).
- UL 1746, *Standard for Safety for External Corrosion Protection Systems for Steel Underground Storage Tanks* (new standard).
- UL 2218, *Standard for Safety for Impact Resistance of Prepared Roof Covering Materials* (new standard).

Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email **Richard.Serbu@eh.doe.gov**. If you have any questions or comments on DOE standards projects, please contact Don Spellman, Oak Ridge National Laboratory (ORNL), 423-574-7891, FAX 423-574-0382, Email **spellmandj@ornl.gov**.

Addresses: To update our distribution list, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423- 574-0382, Email **mmf@ornl.gov**.

The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email **lj8@ornl.gov**.



Standards *Actions*

United States Department of Energy

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